$$b_1 = -r'_0 z'_0,$$

$$b_2 = r_0^2 + r_0'^2,$$

$$b_3 = -r_0 z''_0 + 2r'_0 z''_0 - r''_0 z'_0 - \frac{e}{pc}\left[H_\theta^0 \Phi_0 - (r_0 H_r^0 - r'_0 H_\theta^0)\frac{\partial \Phi_0}{\partial r'}\right].$$

$$b_4 = -r_0 r'_0 - r'_0 r''_0 - \frac{e}{pc}(r'_0 H_\theta^0 - r_0 H_r^0)\frac{\partial \Phi_0}{\partial z'}, \qquad \underline{(1,7)}$$

$$b_5 = 2r_0 z''_0 - r'_0 z'_0 - \frac{e}{pc}\left[\left(-H_r^0 - r_0\frac{\partial H_r^0}{\partial r} + r'_0\frac{\partial H_\theta^0}{\partial r}\right)\Phi_0 - \right.$$

$$\left. - (r_0 H_r^0 - r'_0 H_\theta^0)\frac{\partial \Phi_0}{\partial r}\right],$$

$$b_6 = -\frac{e\Phi_0}{pc}\left(\frac{r'_0}{r_0}\frac{\partial H_\theta^0}{\partial \theta} - r_0\frac{\partial H_\theta^0}{\partial r}\right).$$

The system of Eqs. (1,4) determines the particle path r_0, z_0 and the system (1,5) the betatron oscillations around this path. In the general case it has a complex "wave form", the equation of which was solved by the

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Free motion of particles in....

successive approximation method. The study of the path in the annular synchrocyclotron shows (equation

$$X \simeq -\frac{2a H_{s,N}}{N^2}\cos N\theta + \frac{a^2 H_{s,N}^2}{2N^4}\left(n+\frac{5}{2}\right)\cos 2N\theta - s\,\frac{a^2 H_{s,N}^2}{2N^4}\sin 2N\theta,$$

$$\alpha_{1,2} \simeq \mp \frac{N}{2}\left(\frac{2}{n+\frac{3}{2}}\right)^{1/2}\frac{1}{H_{s,K}}, \quad n > -\frac{3}{2}. \qquad (2,20)$$

that the controlling magnetic field which periodically varies with the azimuth is to increase with the absolute value of the diameter to attain a simultaneous acceleration of particles with the same sign in opposite directions. Relation

$$K \simeq N\left(\frac{2}{n+\frac{3}{2}}\right)^{1/2}\left[1+\frac{n+1}{N}\left(\frac{2}{n+\frac{3}{2}}\right)^{1/2}\right]. \qquad (3,4)$$

is derived for the "utilization" coefficient of the magnetic field. The main characteristics of the betatron oscillations, i.e., the amplitude and frequency Q can be determined from the equations

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$$A_{4,k} \simeq -3\delta_{k,0}(1 + \alpha H_{s,k}) - \alpha \left[H_{s,k} + r\frac{\partial H_{s,k}}{\partial r} + \alpha \sum_{m \neq 0} \frac{k-m}{m} H_{r,m} H_{r,k-m} - \right.$$

$$\left. - 2iz \sum_{m \neq 0} \frac{H_{r,m} H_{\vartheta,k-m}}{m} \right] + \alpha^2 \left\{ \sum_{m \neq k,0} \frac{1}{m(k-m)} (6H_{s,m} H_{s,k-m} - \right.$$

$$- 2H_{r,m} H_{r,k-m}) + \sum_{m \neq 0} \frac{1}{m^2} \left[H_{s,m} \left(7H_{s,k-m} + 4r\frac{\partial H_{s,k-m}}{\partial r} + r^2 \frac{\partial^2 H_{s,k-m}}{\partial r^2} \right) - \right.$$

$$\left. \left. - H_{r,m} \left(4r\frac{\partial H_{s,k-m}}{\partial z} + r^2 \frac{\partial^2 H_{s,k-m}}{\partial r \partial z} \right) \right] \right\},$$

$$A_{s,k} \simeq -\alpha \left(r\frac{\partial H_{s,k}}{\partial z} + \alpha \sum_{m \neq 0} \frac{k-m}{m} H_{r,m} H_{s,k-m} + i\alpha \sum_{m \neq 0} \frac{H_{s,m} H_{\vartheta,k-m}}{m} \right) -$$

$$- \alpha^2 \left\{ \sum_{m \neq k,0} \frac{2H_{s,m} H_{r,k-m}}{m(k-m)} + \sum_{m \neq 0} \frac{1}{m^2} \left[H_{s,m} \left(2r\frac{\partial H_{s,k-m}}{\partial z} + r^2 \frac{\partial^2 H_{s,k-m}}{\partial r \partial z} \right) - \right. \right.$$

$$\left. \left. - H_{r,m} r^2 \frac{\partial^2 H_{s,k-m}}{\partial z^2} \right] \right\}; \qquad (4,10)$$

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and

$$B_{4,k} \simeq \alpha \left[2(1+\delta_{k,0}) H_{r,k} + r\frac{\partial H_{r,k}}{\partial r} - \alpha \sum_{m \neq 0} \frac{k-m}{m} H_{z,m} H_{r,k-m} + \right.$$

$$+ 3i\alpha \sum_{m \neq 0} \frac{H_{z,m} H_{\theta,k-m}}{m} \left] - 2\alpha^2 \left\{ \sum_{m \neq k,0} \frac{H_{z,m} H_{r,k-m}}{m(k-m)} + \sum_{m \neq 0} \frac{1}{2m^2} \left[H_{z,m} \left(6H_{r,k-m} + \right. \right. \right.$$

$$\left. \left. \left. + 2r\frac{\partial H_{r,k-m}}{\partial r} + r^2 \frac{\partial^2 H_{r,k-m}}{\partial r^2} - H_{r,m} \left(2r\frac{\partial H_{z,k-m}}{\partial r} + r^2 \frac{\partial^2 H_{z,k-m}}{\partial r^2} \right) \right] \right\} \right. ,$$

$$B_{5,k} \simeq \alpha \left[(1-\delta_{k,0}) H_{z,k} + r\frac{\partial H_{z,k}}{\partial r} - \alpha \sum_{m \neq 0} \frac{k-m}{m} H_{z,m} H_{z,k-m} \right] +$$

$$+ \alpha^2 \left\{ \sum_{m \neq k,0} \frac{H_{z,m} H_{z,k-m}}{m(k-m)} + \sum_{m \neq 0} \frac{1}{m^2} \left[H_{z,m} \left(H_{z,k-m} - 2r\frac{\partial H_{z,k-m}}{\partial r} - \right. \right. \right.$$

$$\left. \left. \left. - r^2 \frac{\partial^2 H_{z,k-m}}{\partial r^2} \right) + H_{r,m} \left(r\frac{\partial H_{z,k-m}}{\partial z} + r^2 \frac{\partial^2 H_{z,k-m}}{\partial r \partial z} \right) \right] \right\} . \qquad (4,11)$$

derived. The betatron oscillations in the annular synchrocyclotron are dealt with for the general and two special cases, i.e., the sector-spiral-annular synchrocyclotron and the sector-radial-annular synchrocyclotron.

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S/057/61/031/002/013/015
B124/B202

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In the former case, the author proves mathematically that for the stability s must be ⩾5, hence the number of spirals in the "symmetrical" accelerator must be large: N⩾40 and the design of the magnet thus becomes complicated. For the sector-radial-annular synchrocyclotron $K_{min} \simeq 6$ was derived for the "utilization" coefficient of the magnetic field $K \simeq 2(1+\sqrt{N}) \simeq 2.4\sqrt{n}$. This can be especially used to calculate the possible parameters of the symmetrical annular synchrocyclotron. A Table shows the possible parameters of the magnetic field of the sector-radial-annular synchrocyclotron which were calculated from (3,4) and
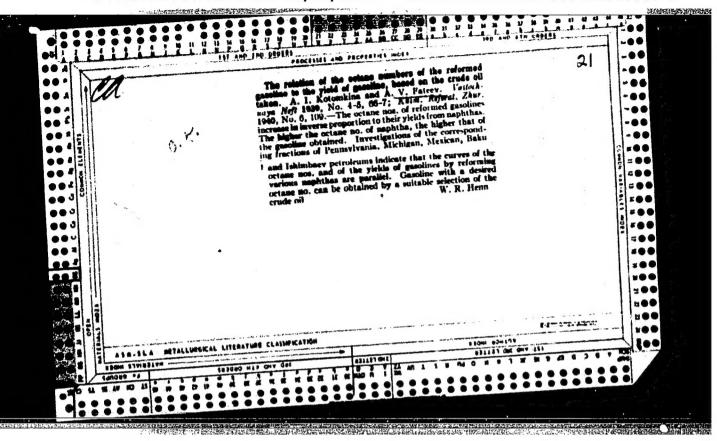
$$Q_z^2 \simeq 2n, \quad Q_y^2 \simeq (1+2s^2) \frac{\sum_{m \neq 0} A_{s,m} A_{s,-m}}{n \sum_{m \neq 0} \frac{A_{s,m} A_{s,-m}}{m^2}}. \qquad (4,26)$$
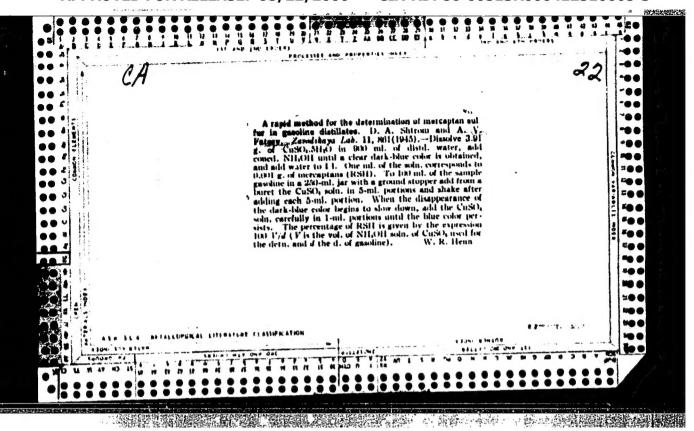
For comparison, the numerical results are given in brackets. The author thanks A. A. Kolomenskiy for assistance and permanent interest in this paper. There are 1 table and 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc.

Card 8/9

FATEYEV, A.V.; KAREL'SHTEYN, I.M.

Using polystyrene foam in the production of furniture. Der. prom. 12
no.11:15-16 N '63.   (MIRA 17:1)

21

The relation of the octane numbers of the reformed gasoline to the yield of gasoline, based on the crude oil taken. A. I. Kotomkina and A. V. Fateev. *Vestnik nauyu Neft* 1939, No. 4-5, 66-7; *Khim. Referat. Zhur.* 1940, No. 6, 100.—The octane nos. of reformed gasolines increase in inverse proportion to their yields from naphtha. The higher the octane no. of naphtha, the higher that of the gasoline obtained. Investigations of the corresponding fractions of Pennsylvania, Michigan, Mexican, Baku and Ishimbaev petroleums indicate that the curves of the octane nos. and of the yields of gasolines by reforming various naphthas are parallel. Gasoline with a desired octane no. can be obtained by a suitable selection of the crude oil.

W. R. Henn

CA

22

A rapid method for the determination of mercaptan sul fur in gasoline distillates. D. A. Shtrom and A. V. Palgov. Zavodskaya Lab. 11, 801(1945).—Dissolve 3.91 g. of $CuSO_4.5H_2O$ in 900 ml. of distd. water, add concd. NH_4OH until a clear dark-blue color is obtained, and add water to 1 l. One ml. of the soln. corresponds to 0.001 g. of mercaptans (RSH). To 100 ml. of the sample gasoline in a 250-ml. jar with a ground stopper add from a buret the $CuSO_4$ soln. in 5-ml. portions and shake after adding each 5-ml. portion. When the disappearance of the dark-blue color begins to slow down, add the $CuSO_4$ soln. carefully in 1-ml. portions until the blue color persists. The percentage of RSH is given by the expression 100 V/d (V is the vol. of NH_4OH soln. of $CuSO_4$ used for the detn. and d the d. of gasoline).   W. R. Henn

FATEYEV, A. V.

(Manual of examples and problems on the theory of electric drive).
(Moskva), Gosenergoizdat, 1951.

SO: MLRA, November 1952.

FAteyev, N.F.

BOGORODITSKIY, N.P., professor; VASIL'YEV, D.V., professor; BAYDA, L.I.
    dotsent; ODINTSOV, G.V., dotsent; SEMENKOVICH, A.A., dotsent; FATEYEV,
    A.V., dotsent; YURGENSON, R.I., dotsent; ARANOVICH, B.I., starshiy
    prepodavatel'; GEKTOR, D.S. starshiy prepodavatel'; POVOLOTSKIY, Ya.A.,
    prepodavatel'.

Development of automatic control and telemechanics in the fifth
five-year plan. Avtom. i telem. 14 no.2:238-240 Mr-Ap '53.
                                                    (MLRA 10:3)

1. Leningradskiy elektrotekhnicheskiy institut im. V.I.Ul'yanova
(Lenina)
              (Automatic control) (Remote control)

FATEEV, A. V. (Cand Tech Sci)

Dissertation: "Methods of Determining Parameters of Correcting Feedbacks for automatized systems." Dr Tech Sci, Institute of Automatics and Telemechanics, Acad Sci USSR, 24 Jun 54. (Vechernyaya Moskva, Moscow, 15 Jun 54)

SO: SUM 518, 23 Dec 1954

FATEYEV, Aleksandr Vasil'yevich; SEMENOV, V.V., redaktor; ZABRODINA, A. A., tekhnicheskiy redaktor.

[Principles of the linear theory of automatic control] Osnovy lineinoi teorii avtomaticheskogo regulirovaniia. Moskva, Gos. energeticheskoe izd-vo, 1954. 295 p.   (MIRA 8:2)
        (Automatic control)

From the known values of the qualitative constants and the reserve stability, nomograms are plotted to produce a material, frequency characteristic of the corrected system.

quency characteristic and the phase-amplitude characteristic of the corrected system are determined.

If the phase-amplitude characteristic of the un-corrected system is already known, a method of graphical analysis can be applied to the construction of the phase-amplitude characteristic of the correcting arrangement, from which its type and parameters can be determined.

Tables are given of typical links and

KUIEBAKIN,V.S.; ALEKSEYEV,A.Ye.,; LARIONOV,A.N.; BOGORODITSKIY,N.P.;
      CHILIKIN,M.G.; VASIL'YEV,D.V.; ODINTSOV,G.V.; PETROV,I.I.;
      FATEYEV,A.V.; GOLOVAN,A.T.; MOROZOV,D.P.; BASHARIN,A.V.

      S.A.Rinkevich. Elektrichestvo no.9:85 S'55. (MLRA 8:11)
            (Rinkevich, Sergei Aleksandrovich, 1886-1955)

FATEYEV, A.V.

PHASE I BOOK EXPLOITATION 796

Verkholat, Mikhail Yefimovich and Fateyev, Aleksandr Vasil'yevich

Analiz raboty i raschet elementov elektricheskogo privoda (Analysis of Operation and Design of Elements of Electric Drives) Moscow, Mashgiz, 1957. 105 p. 8,500 copies printed.

Reviewers: Zusman, V.G., Candidate of Technical Sciences, and Naydis, V.A., Engineer; Ed.: Sabinin, Yu.A., Candidate of Technical Sciences; Ed. of Publishing House: Vasil'yeva, V.P.; Tech. Ed.; Sokolova, L.V.; Chief Ed. (Leningrad Division, Mashgiz): Bol'shakov, S.A., Engineer.

PURPOSE: The monograph is intended for engineering and technical personnel engaged in machine-tool building and, chiefly, in the design of electric drives for metal-cutting machines. It can also be used by students in the machine-tool building departments of vtuzes.

COVERAGE: The monograph presents an analysis of the operation of an automatic control system for the feed drive of a heavy horizontal boring machine. The

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Analysis of Operation and Design (Cont.)   796

effect of various compensating devices on the dynamic properties of the
system is shown. Methods of designing electric drives with wide a speed
range of the d-c prime mover are shown. The book explains the operation
of compensating devices and gives methods for their selection. For
purposes of illustration, an electric drive with a wide speed range for
a type 265 heavy universal boring machine manufactured by the
Stankostroitel'nyy zavod im. Sverdlova (Machine-tool Building Plant imeni
Sverdlov) in Leningrad is discussed. The authors thank the chief designer
of the Machine-tool Building Plant imeni Sverdlov, M.Ye. El'yasberg, for
his help in preparing the book. There are 21 Soviet references, including
1 translation.

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Analysis of Operation and Design (Cont.)   796

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AVAILABLE: Library of Congress (TK4058.V42)

JP/mal
11/14/58

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FATEYEV, A.V.

8(2)   PHASE I BOOK EXPLOITATION   SOV/2030

Vasil'yev, Dmitriy Vasil'yevich, Boris Afanas'yevich Mitrofanov, Grigoriy
    L'vovich Rabkin, Georgiy Nikanorovich Samokhvalov, Aleksandr Aleksandrovich
    Semenkovich, Aleksandr Vasil'yevich Fateyev, and Nikolay Ivankovich Chicherin

Raschet sledyashchego privoda (Servodrive Design) Leningrad, Sudpromgiz, 1958.
    370 p. 8,000 copies printed. Errata slip inserted.

Resp. Ed.: S. Ya. Berezin; Ed.: Ye. N. Shaurak; Tech. Ed.: P. S. Frumkin.

PURPOSE: This book is intended for scientists, engineers, and students of vuzes.

COVERAGE: This book discusses the problems of designing electromechanical
    servodrives and gives examples of design from the point of view of the
    overall system and of the individual basic elements. The design of servodrive
    amplifiers, the selection and design of error-sensing devices, and the
    experimental determination of the transfer functions of the discrete links
    of a servodrive are given considerable attention in the book. Materials on
    the design of electromechanical servodrives are systematized and the design
    of servodrives with electronic and magnetic amplifiers and of servodrives
    with rotating amplifiers is discussed. These designs reflect the practical
    experiences of the authors in the development of servosystems. The authors

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Servodrive Design (Cont.)   SOV/2030

thank I. A. Petrusenko, I. S. Rayner, N. M. Konovalova, L. A. Agarkova,
and Yu. A. Yereneyev for their aid in preparing the book. There are
51 references: 47 Soviet, 1 German, and 3 English.

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Servodrive Design (Cont.)

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Servodrive Design (Cont.)

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Servodrive Design (Cont.)   SOV/2030

   7-5. Example of the design of a servodrive with magnetic and
         rotating amplifiers   358

Bibliography   366

AVAILABLE: Library of Congress

FATEYEV, A.V.

BOGORODITSKIY, N.P.; YERMOLIN, N.P.; FATEYEV, A.V.; VASIL'YEV, D.V.; ODINTSOV, G.V.; GEKTOR, D.S.; APLAKSIN, B.I.

Professor V.A. Timofeev. Elektrichestvo no.2:96 F '58. (MIRA 11:2)
(Timofeev, Vladimir Andreevich, 1897-)

SOV/146-58-4-11/22

AUTHORS: Fateyev, A.V., Doctor of Technical Sciences, Professor, Vavilov, A.A., Candidate of Technical Sciences, Docent, Granstrem, M.P., and Kotchenko, F.F., Engineers

TITLE: An Automatic Quick-Response Compensator Developed on the Basis of the EPP-09 Instrument

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Priborostroyeniye, 1958, Nr 4, pp 60-68 (USSR)

ABSTRACT: The automatic, quick-response compensator EPP-09, produced by the Soviet industry, does not meet the quick-response requirements for laboratory and production purposes, since the indicator travels over the dial within 1 second, while in some cases a travelling speed of 0.2 - 0.3 seconds is required. The solution of this problem presents great difficulties, since re-adjustments must be kept at a minimum and must not exceed 0.2 - 0.3% of the dial length. The minimum zone of non-sensitivity must not exceed 0.1 - 0.2% of the dial length. The experience of a number of foreign enterprises proves the possibility of creating a device which

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An Automatic Quick-Response Compensator Developed on the Basis of
the EPP-09 Instrument

provides the required quick-response. In this paper,
the authors describe the servo mechanism for the
quick-response automatic compensator EPP-09 with a
measuring range of 0 - 10 millivolts and 0 - 500 micro-
volts, and present also some results of the experimen-
tal investigation of the model of the automatic, quick
-response compensator. It has an indicator travelling
time of 0.25 - 0.3 seconds with a maximum readjustment
value of   0.2 - 0.3% of the dial length. The improve-
ments were developed at the Kafedra avtomatiki i tele-
mekhaniki Leningradskogo elektrotekhnicheskogo insti-
tuta imeni V.I. Ul'yanova (Lenina) (Chair of Automation
and Remote Controls of the Leningrad Electrical Engi-
neering Institute imeni V.I. Ul'yanov (Lenin)). Fig-
ure 1 shows the principal circuits of the servo mecha-
nism. The motor RD-09 which was originally used, was
replaced by a DARM-4/2 motor, because the ASM-100
Card 2/4   motor did not provide the required quick-response

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An Automatic Quick-Response Compensator Developed on the Basis of
the EPP-09 Instrument

(only 0.5 seconds). The control winding of the DARM-
4/2 motor is fed from the push-pull output stage of
an electronic amplifier with 6P3S tubes. Figure 3
shows the circuit diagram of the electronic amplifier
of the automatic quick-response compensator for the
measuring range of 0 - 10 millivolts, while the ampli-
fier of the range of 0 - 500 microvolts is shown in
Figure 4. Each amplifier is built with two 6N2P, one
6N1P and two 6P3S tubes. Figure 5 shows a photograph
of the electronic amplifier. Figures 6, 7, 8, 9 show
oscillograms and diagrams of the functioning of the
servo mechanism. The zone of non-sensitivity is 0.1 -
0.2% of the dial length. The authors recommend the
servo mechanism also for other automatic, quick-re-
sponse compensators produced by the Soviet industry.
There are 1 photograph, 3 circuit diagrams, 1 graph,
4 oscillograms, 2 diagrams and 3 references, 2 of which
are Soviet and 1 English.

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SOV/146-58-4-11/22

An Automatic Quick-Response Compensator Developed on the Basis of the EPP-09 Instrument

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut imeni V. I. Ul'yanova (Lenina) (Leningrad Electrical Engineering Institute imeni V.I. Ul'yanov (Lenin))

SUBMITTED: April 13, 1958

Card 4/4

AUTHORS: Ivanov, V. I., Professor, Doctor of   SOV/1o5-58-9-34/34
Technical Sciences, Vasil'yev, D. V., Professor, Doctor
of Technical Sciences, Fateyev, A. V., Professor, Doctor
of Technical Sciences, Odintsov, G. V., Docent, Candidate
of Technical Sciences

TITLE: Bibliography (Bibliografiya) K.V.Bulgakov: Power Supply
for Industry (K.V.Bulgakov: Energosnabzheniye promyshlennykh
predpriyatiy)

ABSTRACT: This is a review of a book published in 1957 by "Gosenergo-
izdat",   343 pp., 11,85 Roubles. Power supply
for industry is correctly described as a many-sided problem which
must be solved as a whole. The book is intended for the
engineer concerned with the design of power plants for
industry and with their operation, but may also
serve as a textbook for students working in this field.
It will be of particular value since at present there
is no other book on this subject. The book is on a high
scientific and theoretical level. The subject dealt

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Bibliography. K.V.Bulgakov: Power Supply for Industry   SOV/1o5-58-9-34/34

                with is scientifically arranged, it complies with
                the present state of power engineering, and is simply and
                lucidly written. Some minor imperfections, as the too
                small number of numerical examples and reference data,
                etc., could be easily removed with the next edition.
ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im.V.I.
                Ul'yanova (Lenina)(Leningrad Electrical Engineering In-
                stitute im.V.I.Ul'yanov (Lenin))

Card 2/2

USCOMM-DC-60.781

FATEYEV, A. V.
P. 2

SOV/144-58-9-18/18

AUTHOR: Gikis, A. F., Candidate of Technical Sciences, Docent

TITLE: Inter-University Scientific Conference on Electric
Measuring Instruments and Technical Means of Automation
(Mezhvuzovskaya nauchnaya konferentsiya po
elektroizmeritel'nym priboram i tekhnicheskim sredstvam
avtomatiki)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Elektromekhanika,
1958, Nr 9, pp 130-135 (USSR)

ABSTRACT: The conference was held at the Leningradskiy
elektrotekhnicheskiy institut imeni V. I. Ul'yanova
(Lenina) (Leningrad Electro-technical Institute imeni
V. I. Ul'yanov (Lenin)) on November 11-15, 1958. The
representatives of eleven higher teaching establishments
and three research institutes participated and a large
number of specialists of various industrial undertakings
were present.
Professor A. M. Rozenblatt (Institute of Automation and
Telemechanics, Ac.Sc. USSR) presented an exhaustive
review paper on "Application of magnetic amplifiers in
automation and metering". Magnetic amplifiers permit
Card 1/13 execution of five basic logical operations and, therefore,

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they can be applied in discrete operation automation
equipment.
Professor A. V. Fateyev (Leningrad Electro-Technical
Institute imeni V. I. Ul'yanov (Lenin)) read the paper
"Present state and prospects in the development of
the theory and technique of automatic control",
reviewing present trends in the theory of automatic
regulation, development of the theory of linear systems
of automatic control and giving an outline of the present
state of the theory of non-linear systems, systems of
optimalizing control, self-setting systems and impulse
control systems.
Docent F. A. Stupel' (Khar'kov Polytechnical Institute)
in his paper "Present-day designs of an electro-
magnetic automation mechanisms" outlined the character-
istics of individual types of electro-magnetic mechanisms
and the main trends in the design of electro-magnetic
contactors, relays, polarized relays, fast electro-
magnets, electro-magnetic couplings and special electro-
Card 2/13 magnetic mechanisms for programme control.

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Professor N. G. Boldyrev (Leningrad Electro-Technical
Institute) in his paper "Stability of discrete automatic
systems with back coupling" has shown that the final
automatic device can always be synthesized from elements
possessing only two states, 0 and 1, which are linked
into a finite number of elementary circuits.
Docent A. M. Melik-Shakhnazarov (Azerbaydzhan Industrial
Institute imeni M. Azizbekov) in his paper "Problems
of automation of a.c. compensation mechanisms" gave a
systematic review of the problem and quoted practical
examples of auto-compensation equipment used in various
branches of engineering.
Docent A. S. Rozenkrants (Ivanovo Power Institute imeni
V. I. Lenin) in his paper "Automatic a.c. bridges and
compensators" emphasized the acute demand for
automatic instruments for comparing alternating currents.
The fields of application of such instruments could be
considerably extended if they would be designed for
Card 3/13 operating at a wider frequency range. He considered it

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advisable to base the automation of such comparison
instruments on using a phase sensitive indicator and
has described a bridge of this type which was built
at the Ivanovc Power Institute.
Yu. A. Skripnik (Kiyev Polytechnical Institute)
reported on a phase sensitive switch indicator of
semi-equilibrium of a.c. bridges.
Professor L. F. Kulikovskiy (Kuybyshev Industrial
Institute imeni V. V. Kuybyshev) presented a paper
on "Some new types of a.c. compensators".
Assistant Ye. I. Tenyakov (Novocherkassk Polytechnical
Institute imeni S. Ordzhonikidze) presented the paper
"Certain problems of designing automatic d.c. potentio-
meters of high accuracy with numerical reading off".
Aspirant D. I. Malov (Novocherkassk Polytechnical
Institute) presented the paper "High accuracy automatic
d.c. bridge with numerical reading off".
Assistant V. A. Ivantsov (Novocherkassk Polytechnical
Institute) presented the paper "Measuring element
Card 4/13 for accurate automatic comparison metering instruments

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with numerical reading off"; the sensitivity threshold
of such instruments must be of the order of 10 μV and
30 μV in a bridge-circuit in the case of an input
resistance of at least 100 kOhm.   The response time
should be of the order of 5 msec.   The design of the
instrument described by him is based on an a.c.
amplifier, whereby the d.c. voltage to be measured is
transformed into a.c. by a vibrator with a noise level
of the order of 1 μV.   The instrument is phase
sensitive and stability against overloads was achieved
by using a 2-way diode limiter.
Docent B. M. Smolov (Leningrad Electro-Technical
Institute) read the paper "Non-linear electronic
voltage transformers with a numerical output", in which
he considered two methods of transforming voltages into
a numerical code.
V. P. Skuridin (Ural Polytechnical Institute imeni
S. M. Kirov) presented the paper "New counters based
Card 5/13 on polarized relays".   These do not suffer from the

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disadvantage of existing counters, namely, that the
results are lost if the current supply is accidentally
interrupted.
Professor A. V. Fremke and Docent Ye. M. Dushin
(Leningrad Electro-technical Institute) presented the
paper "Metering transducers for automatic instruments
with discrete types of recording".
Candidate of Technical Sciences V. B. Ushakov and
P. N. Kopay-Gora (Scientific Research Institute for
Computers) presented the paper "Computing equipment for
automatic centralized control of production parameters".
Candidate of Technical Sciences V. B. Ushakov presented
the paper "Certain trends in the development of
analogue computers and of computing devices intended
for use in industry".
Candidate of Technical Sciences B. V. Shamray (Leningrad
Electrotechnical Institute) presented the paper "Low
inertia transducer of thermo e.m.f. into a d.c. voltage",
operating with magnetic elements of an input resistance
Card 6/13 of 100 Ohm, a signal of 0.001 V and an output voltage

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of 40 V with a resistance of 4000 Ohm.
Docent G. A. Alizade (Azerbaydzhan Industrial Institute
imeni M. Azizbekov) presented the paper "New d.c. metering
transducers with a high input resistance" (phase
sensitive transducer in d.c. compensators and
particularly its application in the chemical industry).
Docent P. V. Novitskiy (Leningrad Electrotechnical
Institute) presented the paper "Apparatus for measuring
vibration parameters", described a piezo-electric
accelerometer with a range of 10 to 10 000 c.p.s., a
sensitivity of 3 to 7 mV/m/sec^2 with an error of up to
2.5%.
Candidate of Technical Sciences D. A. Borodayev
(Ural Polytechnical Institute) presented the paper
"Instruments for ultra-sonic monitoring of the level
and the pressure of liquids" which was one of a series
of papers on measuring non-electrical magnitudes by
Card 7/13 electric methods.

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Corresponding Member of the Ac.Sc. USSR Professor
K. B. Karandeyev presented the paper "Application of
semi-conductors for metering purposes".
Assistant G. N. Novopashennyy presented the paper
"Metering amplifiers with semi-conductor triodes".
Docent Ya. V. Novosel'tsev, Assistants N. A. Smirnov,
Ye. Ye. Afanas'yev and Ye. P. Ugryumov (Leningrad
Electrotechnical Institute) presented the paper
"Semi-conductor precision instrument for measuring
the frequency by the method of counting impulses".
The described instrument enables measuring the
frequency of harmonic oscillations which occur once
only; the frequency of the input oscillations is
amplified 24 times and the error in measurement does
not exceed 2×10^{-5}.
A number of papers were presented on measuring and
producing instruments based on recently discovered
physical phenomena.
Professor Ye. G. Shramkov and Junior Scientific Worker
S. A. Spektor (Leningrad Polytechnical Institute
Card 8/13 imeni M. I. Kalinin) presented the paper "Measurement

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of large d.c. currents by the method of nuclear
magnetic resonance", which permits measuring with an
error below 0.1%; the built experimental instrument was
suitable for measuring currents up to 35 000 A with an
error not exceeding 0.05%.
Professor N. N. Shumilovskiy (Moscow Lenin Order Power
Institute) presented the paper "Basic trends of
development of radio-active methods of automatic
control of production processes"; he dealt with
sources of metering errors and methods of improving
the accuracy.
Professor Ya. Z. Tsypkin (Institute of Automatics and
Telemechanics, Ac.Sc. USSR) presented the paper "On
certain features and potentialities of impulse
automatic systems". He dealt particularly with
"compensation" delay in impulse automatic systems,
impulse extremal and self-setting systems and basic
Card 9/13   trends in the development of impulse circuits.

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Assistant M. M. Fetisov (Leningrad Polytechnical Institute)
presented a paper on the "Basic problems of the theory
of automatic electric metering instruments with reverse
transformation for measuring non-electrical magnitudes".
The method is based fundamentally in compensating the
measured non-electrical magnitude with a similar
magnitude produced by means of a transducer.
Professor R. R. Kharchenko (Moscow Lenin Order Power
Institute) presented the paper "Determination of the
dynamic errors of a magneto-electric oscillograph by means
of analogues".
N. F. Suvid (Kiyev Polytechnical Institute) presented the
paper "Measurements using magnetic bridges".
In addition to this, three further papers were read on
magnetic measurements.
Candidate of Technical Sciences P. G. Nikitin and
Senior Lecturer D. A. Bezukladochnikov (Ural Polytechnical
Institute) read the paper "Measuring the potential of a
magnetic field by means of bismuth resistance and Hall
Card 10/13 e.m.f. pick-ups"; he described a new method of producing

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bismuth spirals by electrolytic deposition of bismuth
inside grooves of a base made of insulation material.
Senior Lecturer V. A. Ferents (Kazan' Aviation Institute)
presented the paper "High sensitivity magnetic gas
analysers for oxygen"; the increased sensitivity was
achieved by separating the heat sensitive element from
the heating element.
Docent P. P. Ornatskiy (Kiyev Polytechnical Institute)
presented the paper "Measurement of electrical magnitudes
at infra-low frequencies by electric indicating instru-
ments of various systems"; this is of interest since there
is a demand for instruments operating at frequencies of
1.5 to 0.5 c.p.s.
Docent R. I. Yurgenson (Leningrad Electrotechnical Institute)
presented the paper "Methods of ensuring stability against
interference in discrete selection systems" in which he
dealt with the principles of ensuring active and passive
stability against interference in the transmission of

Card 11/13 codes used for transmitting discrete data.

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Docent Ya. V. Novosel'tsev (Leningrad Electrotechnical
Institute) presented the paper "Averaging, differentiation
and smoothing of time functions reproduced by electric
signals".
B. S. Ryabyshkin and V. P. Filippov (Siberian Physico-
Technical Scientific Research Institute) presented the
paper "Electronic analogue correlator"; this was
developed at the Tomsk Ionospheric Station for
calculating the correlation functions in studying the
winds in the ionosphere.
Docent L. I. Stolov (Kazan' Aviation Institute) presented
the paper "Certain characteristics of asynchronous
micro-motors" (see pp 38-44 of this issue) in which he
considers motors with symmetrical windings. The mechanical
and the speed characteristics of such motors are
investigated on the basis of equations of a 4-pole.

At the closing session the results were summarized
of this conference and resolutions were passed. In
particular it was decided to publish the transactions

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     of this conference.

ASSOCIATION: Novocherkasskiy politekhnicheskiy institut
       (Novocherkassk Polytechnical Institute)

Card 13/13

USCOMM-DC-60,873

FATEYEV, A.V.

Anisimov, Vladimir Ivanovich, Aleksandr Aleksandrovich Vavilov, and
    Aleksandr Vasil'yevich Fateyev

Sbornik primerov i zadach po lineynoy teorii avtomaticheskogo
    regulirovaniya. (Collection of Examples and Problems on Linear
    Theory of Automatic Control) Moscow, Gosenergoizdat, 1959.
    254 p. 10,000 copie printed.

Ed. (Title page): A.V. Fateyev, Doctor of Technical Sciences, Pro-
    fessor; Ed. (Inside book): V.G. Kepperman; Tech. Ed.: Ye.M. Soboleva.

PURPOSE: This collection of examples and problems may be used by
    students of higher technical schools and by engineering and tech-
    nical personnel engaged in the design and study of automatic
    control systems. This book is intended to help the reader to acquire
    experience in applying linear automatic control theory to the solu-
    tion of practical problems. The book may be used by students
    taking the course in automatic control offered by the Leningradskiy
    elektrotekhnicheskiy institut (Leningrad Electrical Engineering
    Institute imeni V.I. Ul'yanov).

Card 1/4

Collection of Examples (Cont.)

COVERAGE: Particular attention is given to problems in automatic control of voltages, currents, power, position, speed, etc. Problems of obtaining equations and transfer functions of elements and systems of automatic control are also discussed. The authors thank A.A. Voronov, Doctor of Technical Sciences, and Docent V.G. Kepperman, Candidate of Technical Sciences, for reviewing the manuscript. There are 8 Soviet references (including two translations).

TABLE OF CONTENTS:

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Collection of Examples (Cont.)   SOV/1953

AVAILABLE: Library of Congress

                                                       JJP/dfh
Card 4/4   8-10-59

VASIL'YEV, Dmitriy Vasil'yevich; CHUICH, Voislav Georgiyevich;
     FATEYEV, A.V., prof., doktor tekhn.nauk, retsenzent; SABININ,
     Yu.A., dotsent, kand.tekhn.nauk, red.; DUDUSOVA, G.A., red.
     izd-va; SIMONOVSKIY, N.Z., red.izd-va; NIKOLAYEVA, I.D.,
     tekhn.red.

     [Calculation of automatic control systems; problems and examples]
     Raschet sistem avtomaticheskogo upravleniia; zadachi i primery.
     Moskva, Gos. nauchno-tekhn.izd-vo mashinostr.lit-ry, 1959.   390 p.
                                                    (MIRA 12:10)

          (Electronic control)   (Servomechanisms)

FATEYEV, A.V., doktor tekhn. nauk, prof.

Present status and future development of the theory and technological
equipment of automatic control. Izv. vys. ucheb. zav.; prib. no.2:6-16
'59.   (MIRA 13:2)

1. Leningradskiy elektrotekhnicheskiy institut im. V.I. Ul'yanova (Lenina)
Rekomendovana kafedroy avtomatiki i telemekhaniki.
                    (Automatic control)

FATEYEV, Aleksandr Vasil'yevich, doktor tekhn.nauk, prof.; OLEYNIKOV, Viktor
Alekseyevich, kand.tekhn.nauk, dotsent; ZOTOV, Nikolay Sergeyevich,
assistent; POLYAKOV, Yuriy Andreyevich, inzh.

System for the stabilization and regulation of the speed of a d.c.
motor using a tachometer generator. Izv. vys. ucheb. zav.; elektro-
mekh. 3 no.12:58-64 '60.   (MIRA 14:5)

1. Zaveduyushchiy kafedroy avtomatiki i telemekhaniki Leningradskogo
elektrotekhnicheskogo instituta (for Fateyev). 2. Leningradskiy
elektrotekhnicheskiy institut (for Oleynikov). 3. Kafedra avtomatiki
i telemekhaniki Leningradskogo elektrotekhnicheskogo instituta (for
Zotov, Polyakov).
                    (Electric motors, Direct current)

RAZYGRAYEV, Arkadiy Mikhaylovich; DVORIN, Zinoviy Abramovich; GOL'TSIKER,
David Girshevich; BAKHAREV, Sergey Aleksandrovich; FATEYEV, A.V.,
doktor tekhn. nauk, retsenzent; VOROSHILOV, M.S., kand. tekhn.nauk,
red.; BORODULINA, I.A., red. izd-va; SHCHETININA, L.V., tekhn.red.

[Design and assembly of the electrical equipment of metal-cutting
machines] Proektirovanie i montazh elektrooborudovaniia metallore-
zhushchikh stankov. Izd. 2., dop. i perer. Moskva, Gos.nauchno-
tekhn. izd-vo mashinostroit. lit-ry, 1961. 303 p.

(MIRA 14:6)

(Cutting machines--Electric equipment)

FATEYEV. N. V.

PHASE I BOOK EXPLOITATION ·   SOV/5533   7

Akademiya nauk SSSR. Institut elektromekhaniki.

Spetsial'nyye voprosy avtomatizirovannogo elektroprivoda (Special Problems of the Automatic Electric Drive) Moscow,. Izd-vo AN SSSR, 1961. 248 p. Errata slip inserted. 6,500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut elektromekhaniki.

Eds. (Title page): D. A. Zavalishin, Corresponding Member, Academy of Sciences USSR, and V. V. Rudakov, Candidate of Technical Sciences; Ed. of Publishing House: N. V. Travin; Tech. Ed.: R. A. Arons.

PURPOSE: This book is intended for technical personnel engaged in designing or operating regulated and automated electric drives for machines and mechanisms. It may also be useful to students in advanced courses working on term and degree projects.

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Special Problems of (Cont.)   SOV/5533

COVERAGE: The book discusses the principles of operation and the methods
of computation of regulated drives with a-c and d-c motors. Special
attention is paid to problems related to the frequency method of induction
motor control, which the authors consider the most promising. Recom-
mendations regarding the use of a-c commutator motors and induction
motors with special winding and improved starting characteristics are
made. A considerable part of the book is devoted to problems of design
and calculation of the control circuits for automated d-c drives, and to
methods of investigating dynamic characteristics of d-c drive systems
by means of electronic and electrodynamic models. Recent developments
in regulated d-c drives and modern methods of analyzing and synthesizing
automated d-c systems, based on investigations carried out by the Insti-
tut elektromekhaniki AN SSSR (Institute of Electromechanics AS USSR),
are discussed in detail. The book was written by the following persons:
A. A. Dartau (Chs. II and III), D. A. Zavalishin (Introduction, sections
1, 4, 5, and 6 of Ch. I, and Ch. II); S. V. Korotkov (Ch. VI, sec. 3);

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Special Problems of (Cont.)   SOV/5533

I. I. Laptev (sections 4 and 5 of Ch. V); O. V. Popov (Ch. IV; sections
2, 4, and 5 of Ch. V, and sec. 3 of Ch. VI,); V. A. Prozorov (sections
1, 2, and 3 of Ch. I.); V. V. Rudakov (Introduction, sec. 1 of Ch. V,
sections 1 and 4 of Ch. VI); V. V. Semenov (sec. 3 of Ch. V); Ye. M.
Smirnov (sec. 2 of Ch. VI); E. F. Stepura (sec. 3 of Ch. V); A. V.
Fateyev (Introduction).   There are 69 references: 59 Soviet, 7 German,
2 English, and 1 French.

TABLE OF CONTENTS:

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Special Problems of (Cont.)   SOV/5533

Card 4/8

SHMYREV, Aleksandr Nestorovich; MORENSHIL'DT, Vera Aleksandrovna; IL'INA,
Sof'ya Glebovna; FATEYEV, A.V., doktor tekhn. nauk, prof., retsenzent;
KHOLODILIN, A.N., kand. tekhn. nauk, retsenzent; LEVITIN, S.G.,inzh.,
retsenzent; GERASIMOV,A.V.,kand.tekhn.nauk,nauch.red.; CHERTKOV,R.I.,
kand.fiz.-mat.nauk,nauch.red.;KAZAROV,Yu.S.,red.;ERASTOVA,N.V.,tekhn.red.

[Ship stabilizers] Uspokoiteli kachki sudov. Leningrad, Gos.soiuznoe
izd-vo sudostroit. promyshl., 1961. 515 p.   (MIRA 14:12)
                    (Stability of ships)

GANDIN, L.S.; FATEYEV, A.V.

Analyzing the accuracy of various interpolation methods. Trudy
GGO no.121:19-36 '61.   (MIRA 15:5)
    (Meteorological stations)   (Interpolation)

CHERNORUTSKIY, G.S.; FATEYEV, A.V., prof., doktor tekhn. nauk,
   retsenzent; PECHERINA, I.N., kand. tekhn. nauk, retsenzent;
   DUGINA, N.A., tekhn. red.

   [Electromechanical automatic control systems: Structure of
   automatic control systems. Transfer characteristics of electro-
   mechanical elements. Calculation of the control error]Elektro-
   mekhanicheskie sistemy avtomaticheskogo regulirovaniia: Struktura
   CAP. Peredatochnye svoistva elektromekhanicheskikh elementov.
   Raschet oshibki regulirovaniia.   Moskva, Mashgiz, 1962. 126 p.
                                                  (MIRA 16:3)
         (Automatic control)

ANTOMONOV, Yuriy Gur'yevich; SAZONOV, A.Ye., dotsent, retsenzent;
    FATEYEV, A.V., prof., retsenzent; OLEYNIKOV, V.A., nauchnyy red.;
    NIKITINA, M.I., red.; FRUMKIN, P.S., tekhn. red.

[Automatic control systems using electronic calculating machines;
synthesis of systems optimum in high-speed operation] Avtomatiche-
skoe upravlenie s primeneniem vychislitel'nykh mashin; sintez
sistem, optimal'nykh po b strodeistviiu. Leningrad, Sudpromgiz,
1962. 339 p.   (MIRA 15:5)
                    (Automatic control)

OLEYNIKOV, Viktor Alekseyevich; ZOTOV, Nikolay Sergeyevich; FATEYEV,
A.V., doktor tekhn. nauk, prof., retsenzent; KOTCHENKO, P.F.,
inzh., nauchnyy red.; BRUSKIN, D.M., ved. red.; SAFRONOVA,
I.M., tekhn. red.

[Automatic control of technological processes in the
petroleum and petrochemical industries]Avtomaticheskoe regu-
lirovanie tekhnologicheskikh protsessov v neftianoi i nefte-
khimicheskoi promyshlennosti. Leningrad, Gostoptekhizdat,
1962. 321 p. (MIRA 15:11)
(Automatic control)
(Petroleum industry—Equipment and supplies)

IVASHCHENKO, N.N.; FATEYEV, A.V., doktor tekhn. nauk, prof.,
        retsenzent; YELISEYEV, M.S., inzh., red.; MODEL', V.I.,
        tekhn. red.

[Automatic control; theory and elements of control systems]
Avtomaticheskoe regulirovanie; teoriia i elementy sistem.
2., ispr. i dop. izd. Moskva, Mashgiz, 1962. 628 p.
                                                (MIRA 15:11)
        (Automatic control)

ALEKSEYEV, A.Ye.; BULGAKOV, K.V.; ZILITINKEVICH, S.I.; IVANOV, V.I.;
PETROV, I.I.; RYZHOV, P.I.; SYROMYATNIKOV, I.A.; TIMOFEYEV, V.A.;
SHCHEDRIN, N.N.; FATEYEV, A.V.

Sixtieth anniversary of the birth of Dmitrii Vasil'evich Vasil'ev.
Elektrichestvo no.3:93 Mr '62.   (MIRA 15:2)
                    (Vasil'ev, Dmitrii Vasil'evich, 1901-)

VAVILOV, Aleksandr Aleksandrovich; SOLODOVNIKOV, Aleksey Ivanovich;
    FATEYEV, A.V., red.; ZHITNIKOVA, O.S., tekhn. red.

[Experimental determination of the frequency characteristics
of automatic-control systems] Eksperimental'noe opredelenie
chastotnykh kharakteristik avtomaticheskikh sistem. Moskva,
Gosenergoizdat, 1963. 251 p.   (MIRA 16:11)
                    (Automatic control)

VASIL'YEV, D.V.; MITROFANOV, B.A.; RABKIN, G.L.; SAMOKHVALOV,
    G.N.; SEMENKOVICH, A.A.; FATEYEV, A.V.; CHICHERIN, N.I.;
    NORNEVSKIY, B.I., kand. tekhn. nauk, retsenzent; BEREZIN,
    S.Ya., nauchn. red.; SACHUK, N.A., red.; KRYAKOVA, D.M.,
    tekhn. red.

[Calculation and design of servo systems] Proektirovanie i
raschet slediashchikh sistem. Leningrad, Izd-vo "Sudostroe-
nie," 1964. 606 p.   (MIRA 17:4)

L 33266-65

ABSTRACT: A new device for measuring the temperature difference up to 300C
(with a maximum absolute temperature of 700C) at two points of a disk (or a gas-
turbine rotor) rotating at 5000 rpm is based on two thermocouples connected in
opposition on a special inductive primary detector (see Fig. 1 of Enclosure). The latter
comprises a permalloy stator carrying two windings connected in opposition and
supplied at 50 cps and a salient-pole rotor carrying one winding connected to the
thermocouples. The rotor is mechanically coupled to the rotating turbine shaft.
Thus, the detector acts as a conventional torus magnetic amplifier but has a

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ACCESSION NR: AP5006632

0.3-mm airgap which prevents any amplification and actually is responsible for certain attenuation of the signal. Characteristics of the detector for various excitation currents and speeds (see Fig. 1) are practically flat. However, the thermocouple signal is very weak (about 12 mv or 2×10^{-10} w). Hence, the signal is fed to a special 7-transistor preamplifier supplied at 220 volts ac and consisting of a double-frequency modulator, a 3-stage amplifier proper, and a demodulator, all provided with a feedback loop. A laboratory model is reported to have shown a 3—4% error in temperature measurement. Orig. art. has: 4 figures.

[03]

ASSOCIATION: Leningradskiy elektrotecknicheskiy institut im. V. I. Ul'yanova (Lenina) (Leningrad Electrotechnical Institute)

SUBMITTED: 17Apr64   ENCL: 01   SUB CODE: PR

NO REF SOV: 002   OTHER: 001   ATD PRESS: 3207

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ACCESSION NR: AP5006632

ENCLOSURE: 01

Fig. 1. A torus inductive detector

Card 3/3

FREYDZON, Isaak Rubinovich. Prinimali uchastiye: ARKHANGEL'SKIY,
    Ye.A.; BRENEV, V.F.; FATEYEV, A.V., doktor tekhn. nauk,
    retsenzent; TITOV, N.I., nauchn. red.; NIKITINA, M.I.,
    red.

[Mathematical modeling of the automatic control systems
of ships] Matematicheskoe modelirovanie sudovykh sistem
avtomaticheskogo upravleniia. Leningrad, Sudostroenie,
1964. 423 p.   (MIRA 18:2)

ATABEKOV, G.I.; BASHARIN, A.V.; BOGORODITSKIY, N.P.; BULGAKOV, K.V.;
        VASIL'YEV, D.V.; YEGIAZAROV, I.V.; YERMOLIN, N.P.; KOSTENKO, M.F.;
        MATKHANOV, P.N.; NOVASH, V.I.; KORNEVSKIY, B.I.; RUTSKIY, A.I.;
        RYZHOV, P.I.; SOLOV'YEV, I.I.; SOLODNIKOV, G.S.; SLEPYAN, Ya.Yu.;
        SMIROVA, N.V.; TINYAKOV, V.A.; FATEYEV, A.V.; FEDOSEYEV, A.M.;
        SHABADASH, B.I.; SHCHEDRIN, N.N.

        Viktor Ivanovich Ivanov, 1900-1964; obituary. Izv. vys. ucheb.
        zav.; energ. 8 no.1:122-123 Ja '65.

                                                    (MIRA 18:2)

L 22569-66

ACC NR: AP6012962   SOURCE CODE: UR/0143/65/000/001/0122/0123

AUTHOR: Atabekov, G. I.; Basharin, A. V.; Bogoroditskiy, N. P.; Bulgakov, K. V.;
Vasil'yev, D. V.; Yeglazarov, I. V.; Yermolin, N. P.; Kostenko, M. P.; Matkhanov,
P. N.; Novash, V. I.; Nornevskiy, B. I.; Rutskiy, A. I.; Ryzhov, P. I.; Solov'yev,
I. I.; Solodovnikov, G. S.; Slepyan, Ya. Yu.; Smurova, N. V.; Tinyakov, N. A.;
Fateyev, A. V.; Fedoseyev, A. M.; Shabadash, B. I.; Shchedrin, N. N.

ORG: none

TITLE: Obituary for Ivanov, Viktor Ivanovich

SOURCE: Izvestiya vysshikh uchebnykh zavedeniy. Energetika, no. 1, 1965, 122-123

TOPIC TAGS: academic personnel, electronic personnel, electronics

ABSTRACT: Viktor Ivanovich Ivanov, Dr. of Tech. Sciences, professor of the
Leningrad Electrotechnical Institute imeni V. I. Ulyanov, died 24 August
1964. He was born in 1900, was the first teacher of special relay protection
of power equipment in the USSR, outlining the principles of the new discipline
in a monograph published in 1932. In recent years, Ivanov has concentrated
in the development of the teaching of industrial electronics and pulse
technology in the Leningrad Institute. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 1/1

L 11336-67   EWT(d)/EWT(m)/EWP(k)/EWP(h)/EWP(l)/EWP(v)   FDN/DJ/WE
ACC NR: AP6030626   (A,N)   SOURCE CODE: UR/0413/66/000/016/0122/0122

15

INVENTOR: Naydich, A. I.; Fateyev, B. V.

ORG: none

TITLE: Fuel supply regulator. Class 46, No. 185154

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 122

TOPIC TAGS: fuel control, fuel flow rate

ABSTRACT: This Author Certificate introduces a fuel supply regulator consisting of a housing with a cylindrical gate valve, which includes a rectangular metering dispenser and a bushing. In order to operate on various types of fuel without changing the metering element's profile, the bushing has several openings. each of which is adapted for two kinds of metering profiles which determine the consumption rate. Orig. art. has: 1 figure.

SUB CODE: 21, 13/ SUBM DATE: 29May64/

Card   1/1   UDC: 621.438-543.3-531.9

FATTEL, D. I.

"Complex-Brigade Method for the Continuous Production of Residential Building Complexes." Cand Tech Sci, Khar'kov Construction Engineering Inst, Min Higher Education USSR, Khar'kov, 1955. (KL, No 10, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended .t USSR Higher Educational Institutions (15)

FATEYEV, D.I.,dots.

Basic statutes on organizing industrialized assembly-line
construction in rural districts. Trudy RISI   no.4:49-61
'55.   (MIRA 12:1)
   (Rostov Province--Construction industry) (Farm buildings)

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PHASE I BOOK EXPLOITATION   SOV/1732

Leningrad. Glavnaya geofizicheskaya observatoriya

Metodika meteorologicheskikh nablyudeniy (Methodology of Meteorological
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Its: Trudy, vyp. 61 /153/ 1,400 copies printed.

Sponsoring Agency: USSR. Glavnoye upravleniye gidrometeorologicheskoy
sluzhby

Ed. (title page): E.I. Pivovarova, Candidate of Geographical Sciences;
Ed. (inside book): Ye. I. Oksenova; Tech. Ed.: K.F. Shumikhin.

PURPOSE: This collection of articles is intended for meteorologists
serving with the hydrometeorological network in the Soviet Union.

COVERAGE: The publication contains scientific articles on the methods
of meteorologic observations and on the procedure of testing
meteorological instruments. The possibility of reducing the errors
and thus securing more accurate results in observations are shown
by mathematical computations and graphs. The need for a universal
portable instrument that would be capable of instantly recording
cloud height is emphasized. The articles are accompanied by
maps, diagrams, tables and references.

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P 1-142   551.508.762 :551.576.4

Fateev, N. P., K metodike opredeleniia vysoty nizhnei granitsy oblakov. [Methods for determining cloud base height.] Leningrad. Glavnaia Geofizicheskaia Observatoriia. Trudy. 57:137-142. 1956. 3 figs. 11 refs. DWB In view of the lack in the USSR and abroad of a simple and reliable device for a quick determination of cloud base heights, the author reviews the practical schemes, developed recently in the USSR and abroad, which could be used as a basis for the creation of such photoelectric apparatus for the use of stations of the USSR hydrometerological network. Subject Heading: 1. Cloud base height indicators. — A.M.P.

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